

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31

Claims

1. A fluid dispensing nozzle which comprises:
- an elongated body having a fluid inlet and a fluid outlet;
 - a valve having an open position and a closed position, said valve having first and second ports, said first and second ports being in fluid communication within said valve in said open position and not in fluid communication in said closed position;
 - said first port being in fluid communication with said inlet and said second port being in fluid communication with said outlet;
 - said nozzle further including a pivot mounting carried on said body;
 - a first lever pivotally mounted on said pivot mounting, said first lever being coupled to said valve whereby pivotal movement of said first lever causes said valve to move between said open and said closed positions; and
 - a second lever pivotally mounted on said body, said second lever engaging said first lever whereby pivotal movement of said second lever results in pivotal movement of said first lever about a first axis to move said valve to said open position.
2. The fluid dispensing nozzle as described in claim 1 wherein:
- said second lever is generally L-shaped.
3. The fluid dispensing nozzle as described in claim 2 wherein:
- said second lever comprises first and second arms intersecting with an included angle of approximately 90° and said second lever is mounted for pivotal movement proximate to the intersection of said first and second arms.
4. The fluid dispensing nozzle as described in claim 3 wherein:
- said second lever is pivotally movable toward and away from said fluid outlet.

- 1 5. The fluid dispensing nozzle as describing claim 4 wherein:
2 pivotal movement of said second lever toward said fluid outlet causes an
3 engagement of said second lever with said first lever which causes opening of
4 said valve.
5
- 6 6. The fluid delivery nozzle as described in claim 3 wherein:
7 said second lever is mounted for pivotal movement about a second axis, said
8 second axis being parallel to said first axis.
9
- 10 7. The fluid delivery nozzle as described in claim 6 wherein:
11 said elongated body has an external surface that is generally a cylindrical section.
12
- 13 8. The fluid delivery nozzle as described in claim 7 wherein:
14 said second lever has a generally cylindrical section shaped first arm.
15
- 16 9. The fluid delivery nozzle as described in claim in each wherein said surface on
17 said elongated body that is generally a cylindrical section nests with said
18 generally cylindrical section shaped surface first arm.
19
- 20 10. The fluid delivery nozzle as describing claim 1 wherein:
21 said second lever has a roller mounted thereon that is dimensioned and
22 configured for engagement we said first lever.
23
- 24 11. An attachment for cooperation with an associated fluid dispensing nozzle
25 having an elongated body having a fluid inlet and a fluid outlet, a valve having an
26 open position and a closed position and first and second ports, the first and
27 second ports being in fluid communication within the valve in the open position
28 and not in fluid communication in said closed position, the first port being in fluid
29 communication with the inlet and second port being in fluid communication with
30 said outlet, the nozzle further including a pivot mounting carried on said body,
31 and a first lever pivotally mounted on said pivot mounting, the first lever being

1 coupled to the valve whereby pivotal movement of the first lever causes the valve
2 to move between said open and said closed positions wherein the improvement
3 comprises:

4
5 means for mounting on the elongated body; and

6
7 a second lever pivotally mounted on said means for mounting, said second lever
8 being dimensioned and configured for engaging said first lever whereby pivotal
9 movement of said second lever results in pivotal movement of said first lever
10 about a first axis to move said valve to an open position.

11
12 12. The attachment for cooperation with a fluid dispensing nozzle as described
13 in claim 11 wherein:

14 said second lever is generally L-shaped.

15
16 13. The attachment for cooperation with a fluid dispensing nozzle as described
17 in claim 12 wherein:

18 said second lever comprises first and second arms intersecting with an included
19 angle of approximately 90° and said second lever is mounted for pivotal
20 movement proximate to the intersection of said first and second arms.

21
22 14. The attachment for cooperation with an fluid dispensing nozzle as described
23 in claim 13 wherein:

24 said second lever is pivotally movable toward and away from said fluid outlet.

25
26 15. The attachment for cooperation with a fluid dispensing nozzle as described
27 in claim 14 wherein:

28 pivotal movement of said second lever toward said fluid outlet causes an
29 engagement of said second lever with said first lever which causes opening of
30 said valve.

1 16. The attachment for cooperation with a fluid delivery nozzle as described in
2 claim 13 wherein:

3 said second lever is mounted for pivotal movement about a second axis, said
4 second axis being parallel to said first axis.

5
6 17. The attachment for cooperation with a fluid delivery nozzle as described in
7 claim 16 wherein:

8 said elongated body has an external surface that is generally a cylindrical section.

9
10 18. The attachment for cooperation with a fluid delivery nozzle as described in
11 claim 17 wherein:

12 said second lever has a generally cylindrical section shaped first arm.

13
14 19. The attachment for cooperation with a fluid delivery nozzle as described in
15 claim in each wherein said surface on said elongated body that is generally a
16 cylindrical section nests with said generally cylindrical section shaped surface
17 first arm.

18
19 20. The attachment for cooperation with a fluid delivery nozzle as described in
20 claim 11 wherein:

21 said second lever has a roller mounted thereon that is dimensioned and
22 configured for engagement we said first lever.

23
24 21. A fluid dispensing nozzle which comprises: :
25 an elongated body having a fluid inlet and a fluid outlet;
26 a valve having an open position and a closed position, said valve having first and
27 second ports, said first and second ports being in fluid communication within said
28 valve in said open position and not in fluid communication in said closed position;
29 said first port being in fluid communication with said inlet and said second port
30 being in fluid communication with said outlet;

1 means for operating said nozzle including a pivotally mounted lever having a
2 handle portion which is movable toward and away from said outlet, movement of
3 said handle portion toward said outlet increasing the rate of fluid flow by
4 increasing the opening of said valve, whereby a handicapped user may use arm
5 or torso movement to both urge the nozzle toward a vehicle being refueled as
6 well has changed the rate of fluid flow.

7
8 22. An attachment for a fluid dispensing nozzle having an elongated body having
9 a fluid inlet and a fluid outlet, a valve having an open position and a closed
10 position, the valve having first and second ports, the first and second ports being
11 in fluid communication within the valve in the open position and not in fluid
12 communication in the closed position, the first port being in fluid communication
13 with the inlet and the second port being in fluid communication with the outlet
14 wherein the improvement comprises:

15
16 means for mounting an attachment on the elongated body; and

17
18 means for operating said nozzle including a pivotally mounted lever having a
19 handle portion which is movable toward and away from said outlet, movement of
20 said handle portion toward said outlet increasing the rate of fluid flow by
21 increasing the opening of said valve, whereby a handicapped user may use arm
22 or torso movement to both urge the nozzle toward a vehicle being refueled as
23 well has changed the rate of fluid flow.